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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/709,246	04/23/2004	Mark C. Boomer	101896-0242 (DEP5294)	3245
21125 7590 12/26/2008 NUTTER MCCLENNEN & FISH LLP			EXAMINER	
01122 11112	DE CENTER WEST		HOFFMAN, MARY C	
155 SEAPORT BOULEVARD BOSTON, MA 02210-2604			ART UNIT	PAPER NUMBER
			3733	
			NOTIFICATION DATE	DELIVERY MODE
			12/26/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)			
	10/709,246	BOOMER ET AL.			
Office Action Summary	Examiner	Art Unit			
	MARY HOFFMAN	3733			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 136(a). In no event, however, may a reply be to will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDON	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1) ☐ Responsive to communication(s) filed on 19 S 2a) ☐ This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for allowated closed in accordance with the practice under B	s action is non-final. nce except for formal matters, pr				
Disposition of Claims					
4) ☐ Claim(s) 1 and 4-25 is/are pending in the appl 4a) Of the above claim(s) 7-10,20 and 21 is/are 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,4-6,11-19 and 22-25 is/are rejected 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	e withdrawn from consideration.				
Application Papers					
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 25 September 2007 is/ Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Example 2007.	are: a)⊠ accepted or b)⊡ obje drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ol	ee 37 CFR 1.85(a). Djected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail [5) Notice of Informal 6) Other:	Date			

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 4-6, 11-19 and 22-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kraus et al. (U.S. Patent No. 5,746,741) in view of Walulik (U.S. Patent No. 6,277,119) in view of.

Kraus et al. disclose an implantable spinal connector comprising a clamp member (FIG. 5c) having top and bottom portions that are connected to one another at a terminal end thereof such that the top and bottom portions are movable between an open position in which the top and bottom portions are spaced a distance apart from one another, and a closed position in which the clamp member is adapted to engage a spinal fixation element there between, and the clamp member further including a bore extending through the top and bottom portions for receiving a locking mechanism for locking the top and bottom portions in the closed position. The superior and inferior surfaces of the top and bottom portions tapering away from each other toward the terminal end. The implantable spinal connector further comprising a recess formed between the top and bottom portions for seating a spinal fixation element. The recess is formed adjacent to said terminal end for seating a spinal fixation element therein. The recess is formed in at least one of the inferior surface of the top portion and the superior

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surface of the bottom portion. The recess is formed in each of the inferior surface of the top portion and the superior surface of the bottom portion of the clamp member. The recess has a concave shape defines a substantially cylindrical recess when the clamp member is in the closed position. The top and bottom portions are biased to an closed position. The clamp member is formed from a material that allows the clamp member to deform around a spinal fixation element disposed between the top and bottom portions when the clamp member is locked in the closed position.

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Kraus et al. disclose the claimed invention except for the locking mechanism, i.e. the bore in at least one of the top and bottom portions being internally threaded for mating with corresponding threads formed on at least a potion of the locking mechanism, the locking mechanism comprising a fastening element having a head and a shaft, and wherein one of the bore formed in the top portion and the bore formed in the bottom portion of the clamp member is adapted to freely rotatably receive the threaded shaft of the fastening element, and the other one of the bore formed in the top portion and the bore formed in the bottom portion is internally threaded to mate to threads formed on at least a portion of the shaft of the fastening element, the fastening element including a flange formed there around and adapted to at least temporarily mate the fastening element to a spinal anchoring device, the bore in the top portion of the clamp member being internally threaded for mating with corresponding threads formed on at least a portion of the shaft, and the fastening element including a mating element/socket formed on a distal-most end thereof for mating with a driver tool.

Walulik discloses a spinal connector including a locking mechanism comprising a bore in at least one of the top and bottom portions being internally threaded for mating with corresponding threads formed on at least a potion of the locking mechanism, the locking mechanism comprising a fastening element having a head and a shaft, and wherein one of the bore formed in the top portion and the bore formed in the bottom portion of the clamp member is adapted to freely rotatably receive the threaded shaft of the fastening element, and the other one of the bore formed in the top portion and the bore formed in the bottom portion is internally threaded to mate to threads formed on at least a portion of the shaft of the fastening element, the fastening element including a flange formed there around and adapted to at least temporarily mate the fastening element to a spinal anchoring device, the bore in the top portion of the clamp member being internally threaded for mating with corresponding threads formed on at least a portion of the shaft, and the fastening element including a mating element/socket formed on a distal-most end thereof for mating with a driver tool (see FIG. 5c) in order to

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It would have been obvious to one of ordinary skill in the art at the time the invention was made to construct the device of Kraus et al. with a locking mechanism in view of Walulik in order to provide a more secure connection between the two clamping jaws.

provide a more secure connection between the two clamping jaws.

Furthermore, regarding claims 17 and 25, it would have been an obvious matter of design choice to one skilled in the art at the time the invention was made to construct the threads formed on at least a portion of the shaft of Kraus et al. in view of Walulik

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being left-handed threads, since it is a configuration a person ordinary skill in the art would find obvious for the purpose of providing threads. *In re Dailey and Eilers*, 149 USPQ 47 (1966).

Response to Arguments

Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MARY HOFFMAN whose telephone number is (571)272-5566. The examiner can normally be reached on Monday-Thursday 10:00-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eduardo C. Robert can be reached on 571-272-4719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Mary C. Hoffman/ Examiner, Art Unit 3733

/Eduardo C. Robert/

Supervisory Patent Examiner, Art Unit 3733